

# METHOD AND APPARATUS FOR COMBINING GENE PREDICTIONS USING BAYESIAN NETWORKS

## ABSTRACT OF THE DISCLOSURE

Computer based apparatus and method automates gene prediction in a subject genomic sequence. A plurality of expert systems provide preliminary or intermediate gene predictions. A Bayesian network combiner combines the intermediate gene predictions and forms a final gene prediction. The final gene prediction accounts for dependencies between individual expert systems and dependencies between adjacent parts of the subject genomic sequence.